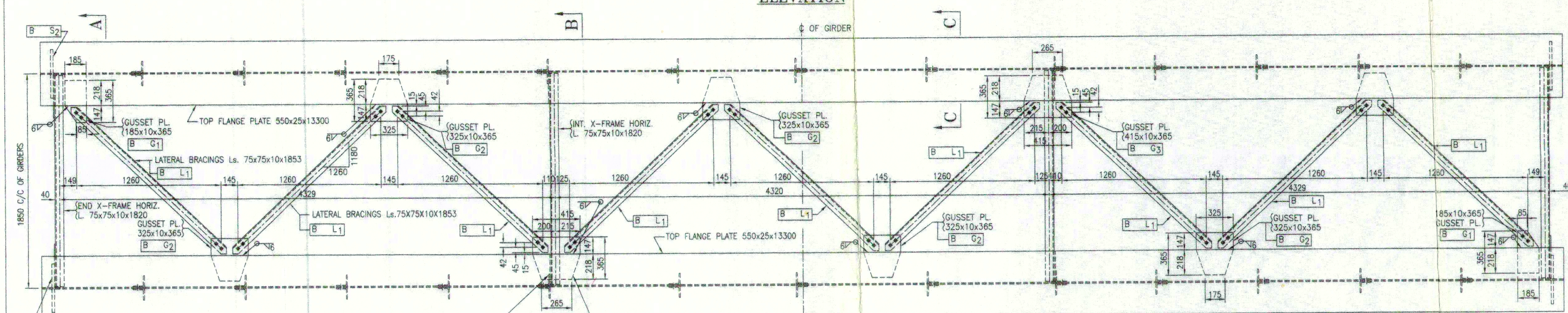
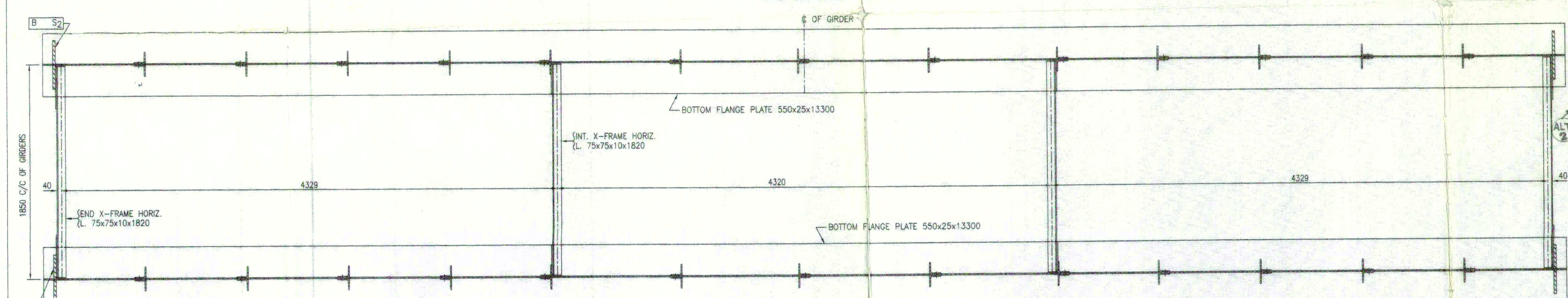


SECTION ON CC



TOP PLAN



BOTTOM SECTIONAL PLAN

RELATED DRAWINGS

DESCRIPTION	REFERENCE
DETAILS OF X-FRAME, BEARING & PART LIST	BA RDSO/B-16014/1
ASSEMBLY DRAWING & DESPATCH LIST	BA RDSO/B-16014/2
WELDING SEQUENCE	BA RDSO/B-16014/3

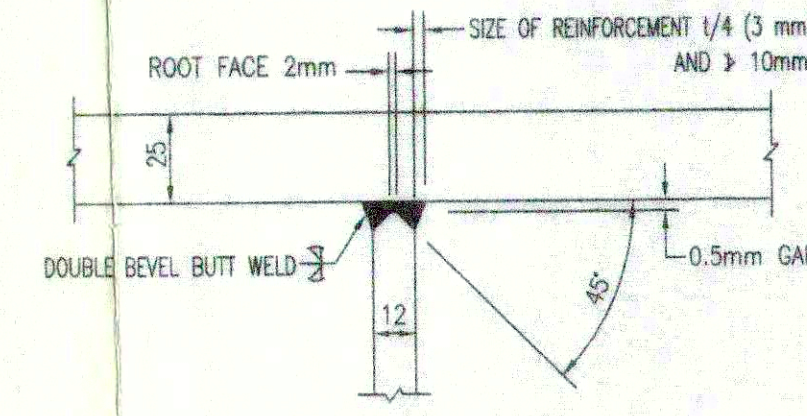
WEIGHT OF SPAN IN TONNES TO IS: 2062

SPAN	BEARING	TOTAL
11.20	0.397	11.597

THE TOTAL WEIGHT OF SPAN INCLUDES WEIGHT OF RIVET HEADS & WELDS @ 2%.

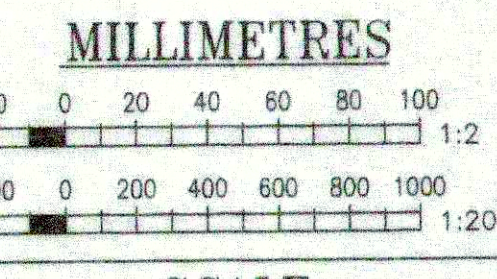
MEMBER	ACTUAL STRESS Kg/mm <sup>2</sup>	PERM. STRESS Kg/mm <sup>2</sup>	ACTUAL STRESS WITH WIND Kg/mm <sup>2</sup>	PERM. STRESS WITH WIND Kg/mm <sup>2</sup>
TOP FLANGE	10.44	14.20	11.67	16.57
BOTTOM FLANGE	10.44	14.20	11.67	13.55
WEB PLATE	4.8	9.40	5.1	9.40

- NOTE
- ELASTOMERIC BEARING CAN BE PROVIDED AS PER DRG. NO. RDSO/B-16014/4 AS AN ALTERNATE. HOWEVER, SINCE ELASTOMERIC BEARINGS HAVE MUCH LESSER LIFE THAN THAT OF GIRDER, THESE SHALL BE AVOIDED UNLESS REQUIRED FROM MANAGEMENT OF LONGITUDINAL FORCES ON SUBSTRUCTURE POINT OF VIEW.
  - SEISMIC FORCES HAVE BEEN CONSIDERED IN DESIGN FOR ZONE-V.
  - THE GAP OF DOUBLE BEVEL BUTT WELD AT WEB-FLANGE CONNECTION SHOULD BE UPTO 5mm (MAX).
  - SUFFICIENT CONVEXITY NOT EXCEEDING 3 mm SHALL BE PROVIDED AS REINFORCEMENT AS PER CL.5.8 OF IRS WELDED BRIDGE CODE.
  - LIFTING ARRANGEMENT IS SHOWN IN DRG. NO. RDSO/B-16014/1.
  - CARE IS REQUIRED BOTH IN SHOP & AT SITE IN LIFTING, HANDLING & ERECTING INDIVIDUAL GIRDERS BEFORE THEY ARE BRACED TOGETHER TO PREVENT LATERAL DISTORTION.
  - ALL BUTT WELDS ARE TO BE EXAMINED RADIOGRAPHICALLY OR BY ANY EQUALLY EFFECTIVE NON-DESTRUCTIVE TEST METHOD.
  - ALL INTERMEDIATE STIFFENERS SHALL BE RIVETTED TO THE WEB ONLY AND NOT WELDED TO FLANGE IN ANY CASE.
  - END STIFFENERS SHALL BE CONNECTED TO FLANGES & WEB BY 6mm FILLET WELD ALROUND.
  - ALL SHOP AND FIELD RIVET HOLES ARE 23.5 DIA. FOR 22 DIA. RIVETS EXCEPT WHERE OTHERWISE SHOWN.
  - GUSSET PLATES HAVING RIVET HOLES FOR CONNECTING TOP LATERAL BRACINGS, SHOULD BE WELDED TO THE BOTTOM FACE OF TOP FLANGE IN THE WORKSHOP.
  - STEEL USED SHALL BE AS PER IS: 2062 AS SPECIFIED IN CLAUSE 8 OF B1-2001. "SPECIFICATION FOR FABRICATION AND ERECTION OF STEEL GIRDER BRIDGES AND LOCOMOTIVE TURN TABLES" AS REVISED UPTO DATE.
  - CALCULATED DEFLECTION UNDER DESIGN LOAD IS 13.72 mm ie 1/355 OF EFFECTIVE SPAN.
  - THIS DESIGN IS IN ACCORDANCE WITH IRS STEEL BRIDGE CODE WITH PERMISSIBLE STRESSES TAKEN AS PER CLASS 'D' OF APPENDIX 'G' FOR 10 MILLION CYCLES.
  - DESIGNED TO SUIT R.C.C. BED BLOCK OF CONCRETE M-25 ADOPTING THE PERMISSIBLE BEARING PRESSURES AS 47.4 Kg/Cm<sup>2</sup> AND 94.8 kg/Cm<sup>2</sup> DUE TO VERTICAL LOAD AND COMBINATION OF LOADS RESPECTIVELY.
  - THE DESIGN IS IN ACCORDANCE WITH IRS BRIDGE RULES, STEEL BRIDGE CODE AND WELDED BRIDGE CODE WITH ALL CORRECTION SLIPS UPTO DATE.
  - ALL DIMENSIONS ARE IN MILLIMETRES.



CONNECTION BETWEEN WEB & FLANGE PLATE

- SPECIFICATION
- STEEL : IS: 2062
  - SCHEME OF SYMBOLS FOR WELDING : IS: 813
  - METAL ARC WELDING : IS: 9595
  - SUB-MERGED ARC WELDING : IS: 4353
  - ELECTRODES : IRS M-28
  - WIRE FLUX COMBINATION FOR SAW : IRS M-39
  - FABRICATION SPECIFICATION No. B1-2001, REVISED-2001



DESCRIPTION	SYMBOL
FILLET WELD (ONE SIDE)	↗
FILLET WELD (BOTH SIDES)	↔
DOUBLE BEVEL BUTT WELD	⊕
FIELD RIVETS	•
ANCHOR BOLTS	⊙
SHOP RIVETS	⊕

- NOTE
- NOTE ADDED, STRESSES WITH WIND FORCES DELETED AND NORMAL STRESSES REVISED S.S.E.
  - NOTE ADDED AND RELATED DRAWINGS ALTERED

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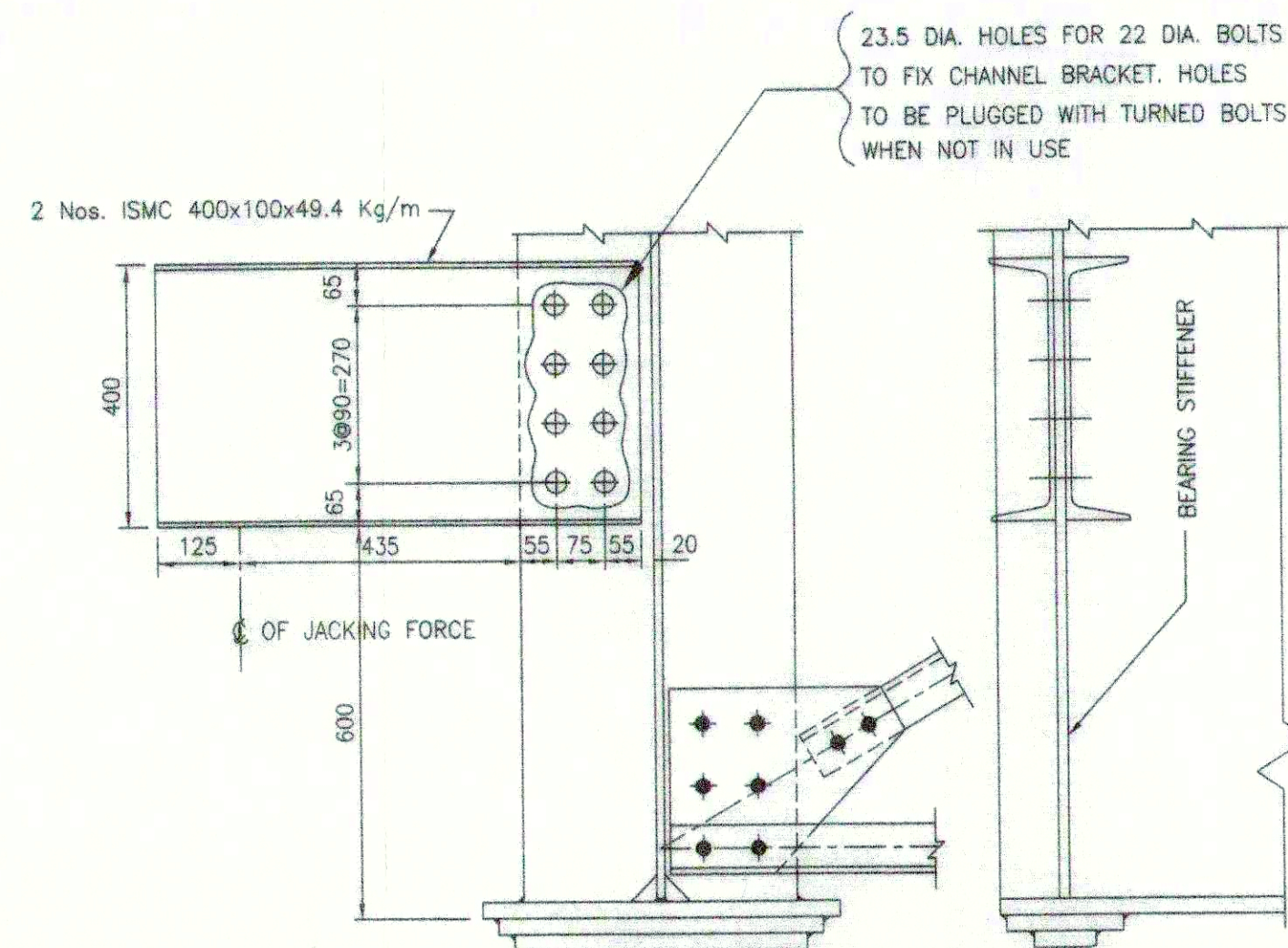
**R. D. S. O.**

**"25t LOADING-2008"**  
**PLATE GIRDER-WELDED TYPE**  
**12.2m SPAN (10x10<sup>6</sup> CYCLES)**  
**BRACINGS & INT. STIFFENERS RIVETTED**  
**GENERAL ARRANGEMENT**

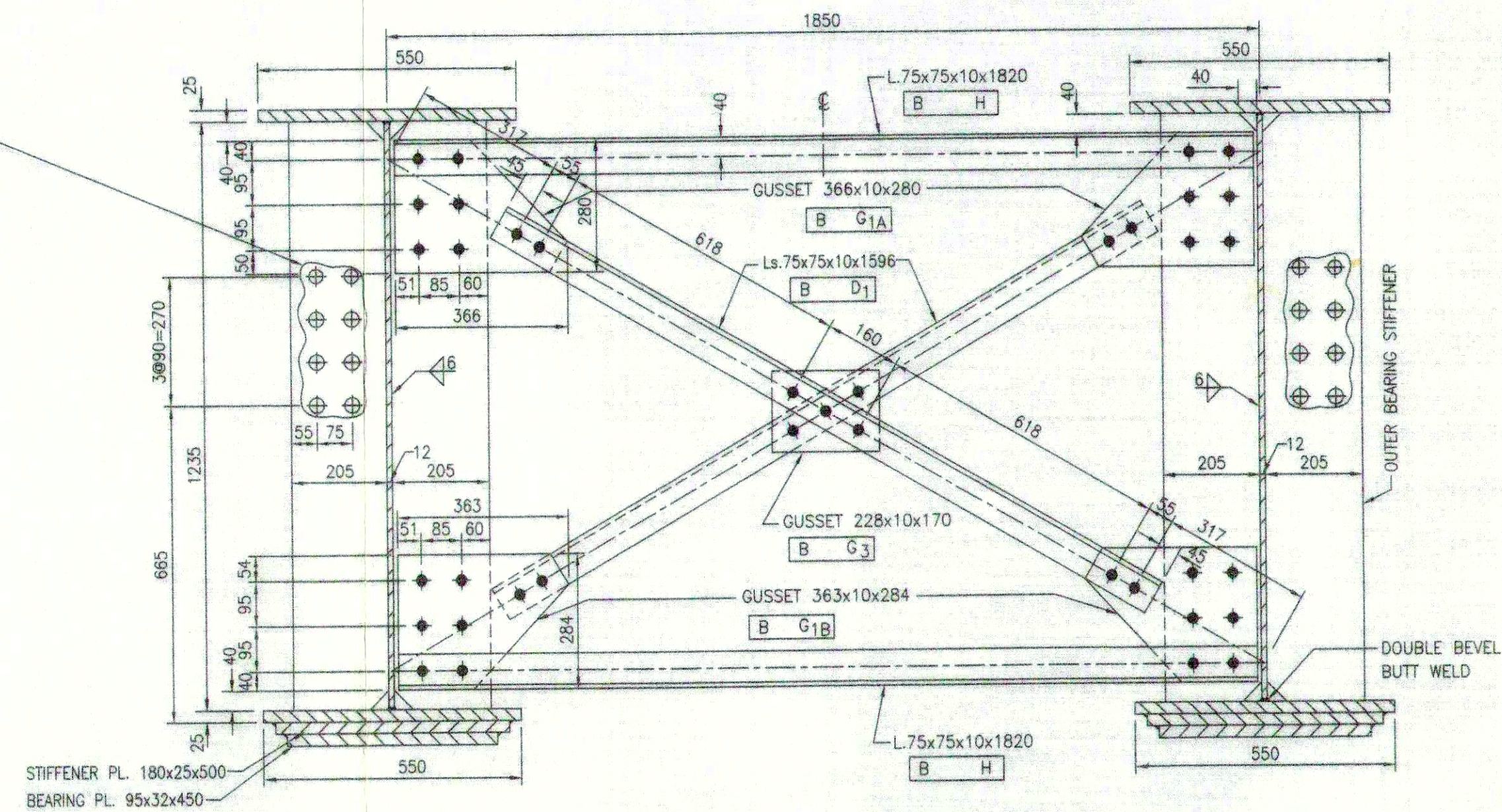
APPROVED VIDE ITEM NO. 999/78th/2009

**BA RDSO/B-16014**

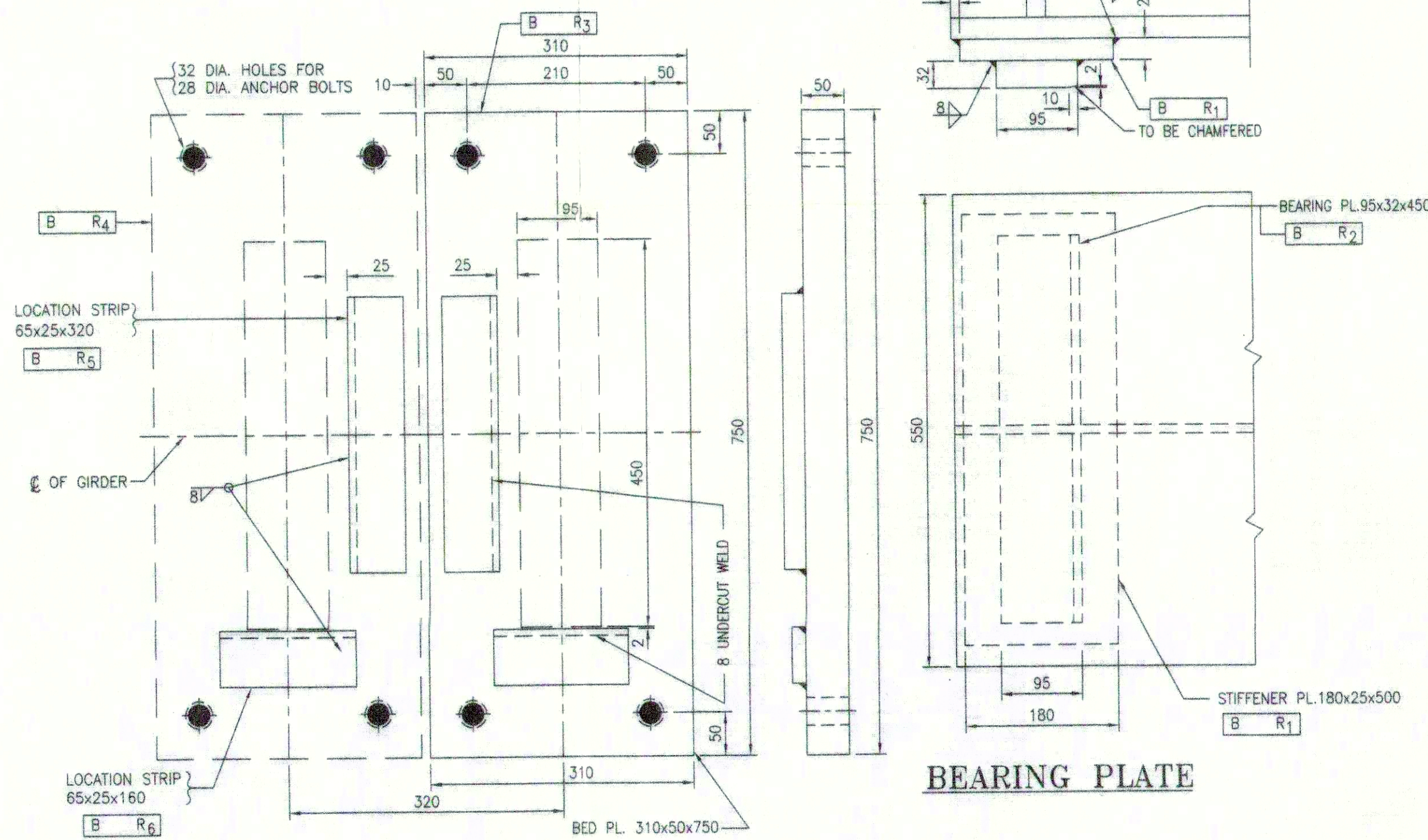




DETAILS OF LIFTING ARRANGEMENT

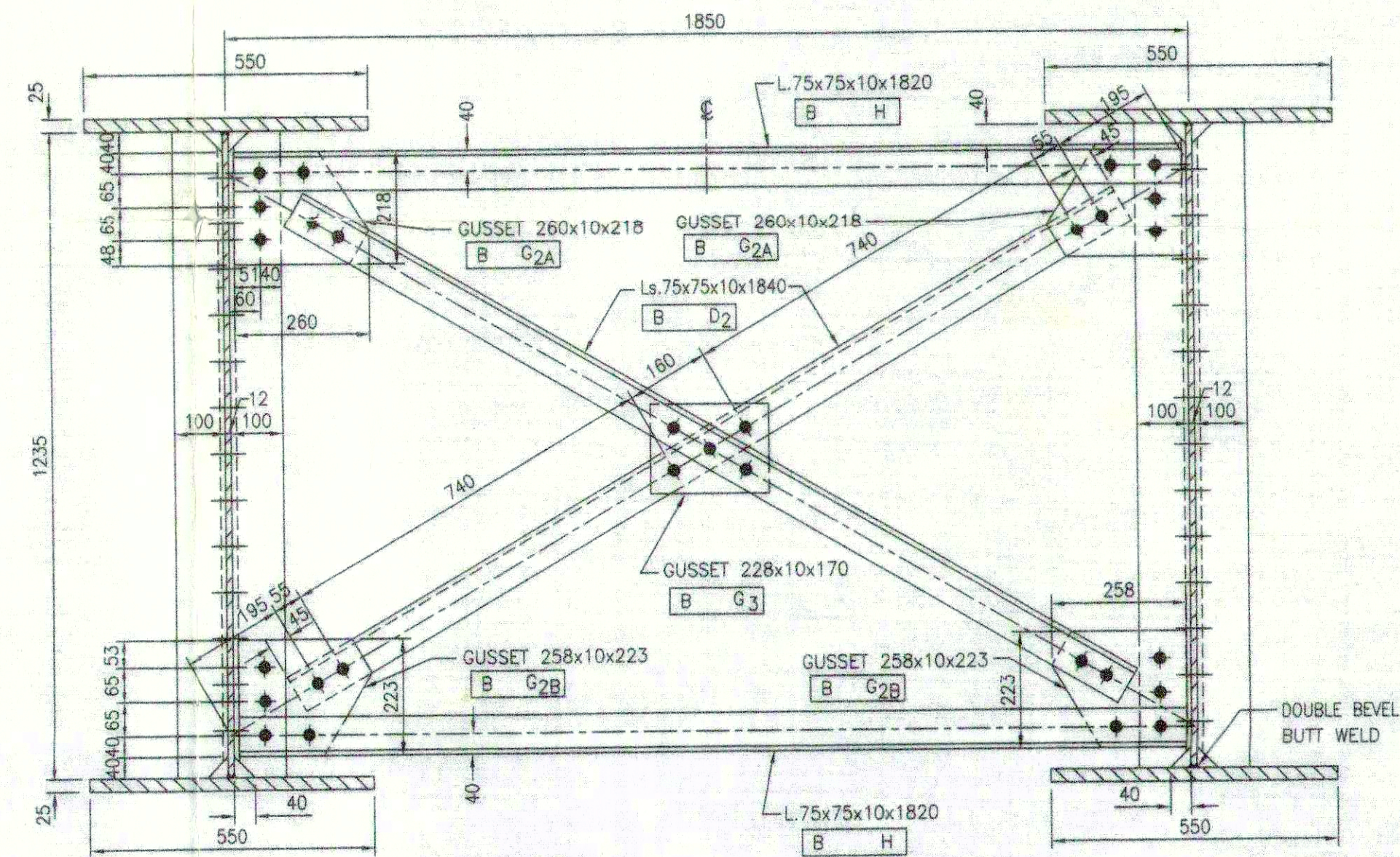


END X-FRAME  
SECTION ON AA



BED PLATE

BEARING PLATE



INT. X-FRAME  
SECTION ON BB

# PART LIST

No. REQD.	DESCRIPTION	PART OR TEMP. No.
2	WEB PLATES	B W <sub>1</sub>
2	TOP FLANGE PLATE	B F <sub>1</sub>
2	BOTTOM FLANGE PLATES	B F <sub>2</sub>
4	STIFFENERS AT ENDS	B S <sub>1</sub>
4	STIFFENERS AT ENDS	B S <sub>2</sub>
44	INT. STIFFENERS WITHOUT X-FRAME	B S <sub>3</sub>
8	INT. STIFFENERS WITH X-FRAME	B S <sub>4</sub>
9	TOP LATERAL BRACINGS	B L <sub>1</sub>
2	TOP LATERAL GUSSETS	B G <sub>1</sub>
6	TOP LATERAL GUSSETS	B G <sub>2</sub>
2	TOP LATERAL GUSSETS	B G <sub>3</sub>
8	X-FRAME Ls. HORIZONTALS	B H
4	X-FRAME DIAGONALS (END)	B D <sub>1</sub>
4	X-FRAME DIAGONALS (INT.)	B D <sub>2</sub>
4	X-FRAME GUSSETS (END)	B G <sub>1A</sub>
4	X-FRAME GUSSETS (END)	B G <sub>1B</sub>
4	X-FRAME GUSSETS (INT.)	B G <sub>2A</sub>
4	X-FRAME GUSSETS (INT.)	B G <sub>2B</sub>
4	X-FRAME GUSSETS (CENTRAL)	B G <sub>3</sub>
4	STIFFENER PLATES	B R <sub>1</sub>
4	BEARING PLATES	B R <sub>2</sub>
4	BED PLATES	B R <sub>3</sub>
4	BED PLATE	B R <sub>4</sub>
4	LOCATION STRIPS	B R <sub>5</sub>
4	LOCATION STRIPS	B R <sub>6</sub>
16	ANCHOR BOLTS	B-005
	HOOK BOLTS	B-003/M
	ELASTOMERIC BEARING	RDSO/B-16014/4 AS PER DRAWING

## RELATED DRAWINGS

DESCRIPTION	REFERENCE
GENERAL ARRANGEMENT	RDSO/B-16014
ASSEMBLY DRAWING & DESPATCH LIST	RDSO/B-16014/2
WELDING SEQUENCE	RDSO/B-16014/3
ELASTOMERIC BEARING	RDSO/B-16014/4

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R. D. S. O.

"25t LOADING-2008"  
PLATE GIRDER-WELDED TYPE  
12.2 m SPAN (10x10<sup>6</sup> CYCLES)  
(BRACINGS & INT. STIFFENERS RIVETTED)  
DETAILS OF X-FRAME, BEARING & PART LIST

APPROVED ITEM NO. 999/78<sup>th</sup>/2009

BA RDSO/B-16014/1

DESCRIPTION	SYMBOL
FILLET WELD (ONE SIDE)	↗
FILLET WELD (BOTH SIDES)	↔
DOUBLE BEVEL BUTT WELD	⌋
FIELD RIVETS	•
ANCHOR BOLTS	⊙
SHOP RIVETS	⊕

- NOTE
- IF ELASTOMERIC BEARINGS ARE TO BE PROVIDED, STIFFENER PLATE (180x25x500) AND BEARING PLATE (95x32x450) SHALL NOT BE PROVIDED AND HOLES SHALL BE DRILLED AS PER DRG. NO. RDSO/B-16014/4 IN BOTTOM FLANGE OF GIRDER.
  - ALTERNATE ARRANGEMENT FOR PROVIDING ELASTOMERIC BEARINGS IS GIVEN IN DRG. NO. RDSO/B-16014/4.
  - ALL SHOP AND FIELD RIVET HOLES ARE 23.5 DIA. FOR 22 DIA. RIVETS EXCEPT WHERE OTHERWISE SHOWN.
  - ALL DIMENSIONS ARE IN MILLIMETRES.

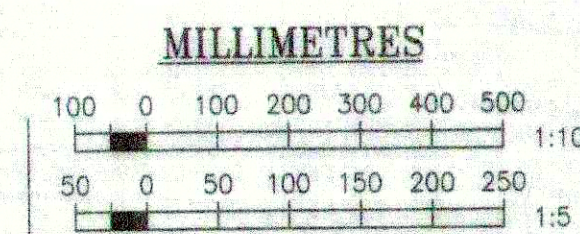
SPECIFICATION

SCALE

ALT.

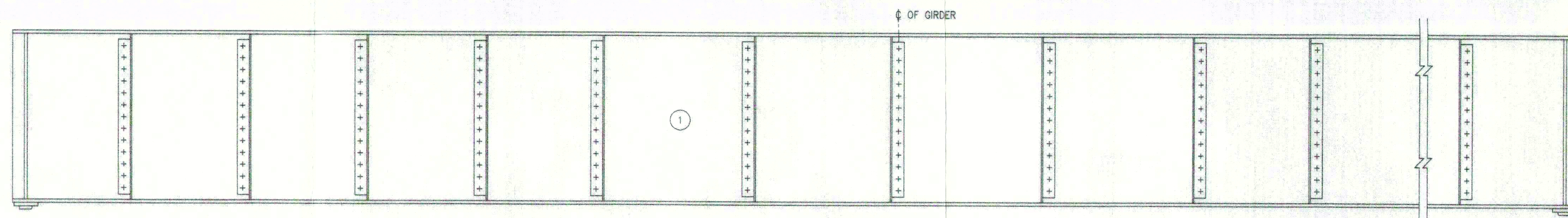
DESCRIPTION

DATE

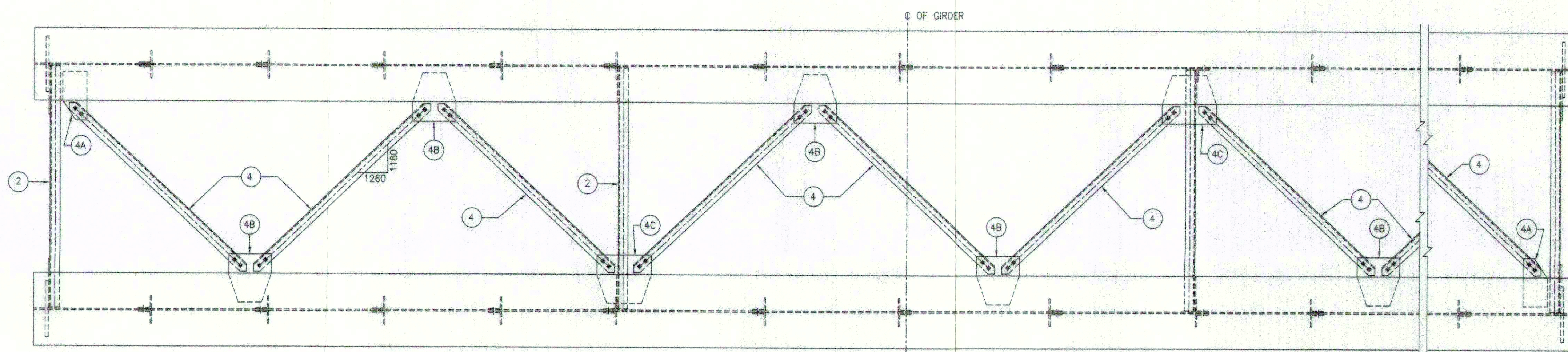


1. ARRANGEMENT FOR ELASTOMERIC BEARING ADDED

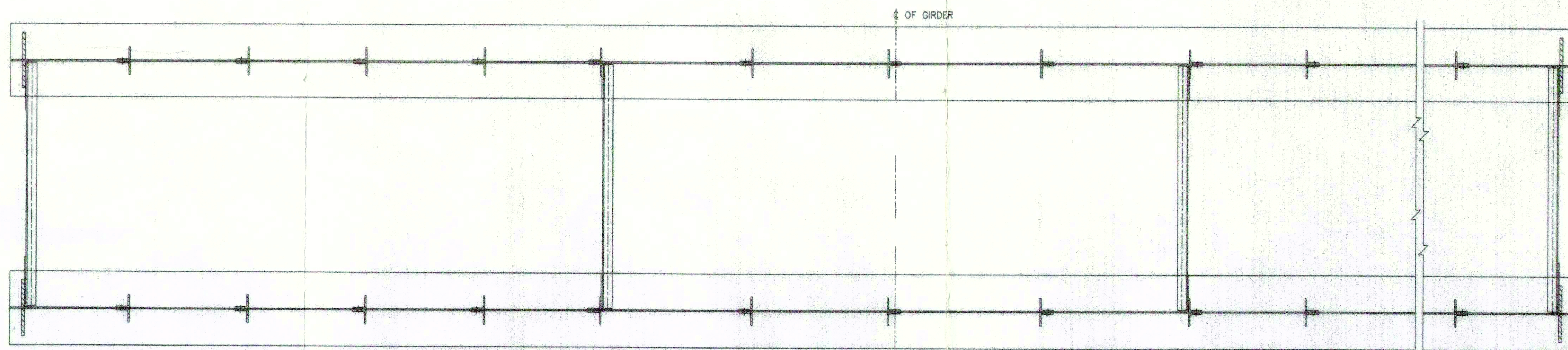




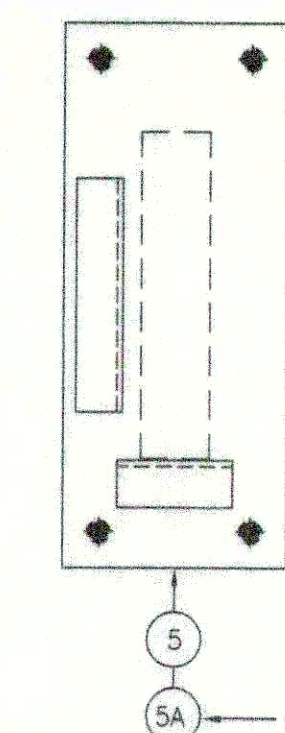
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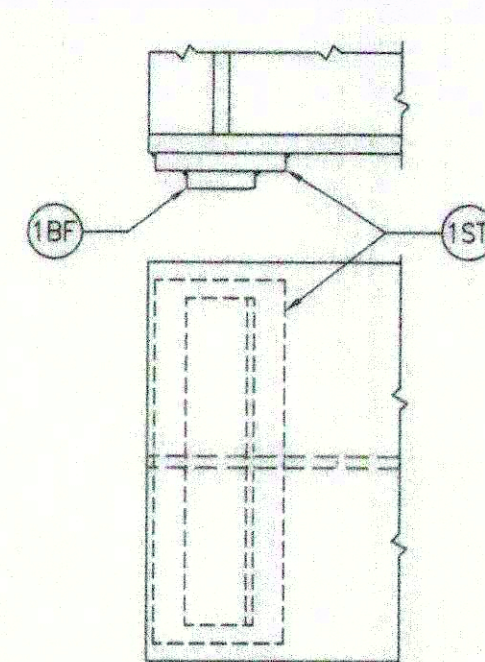
TOP PLAN



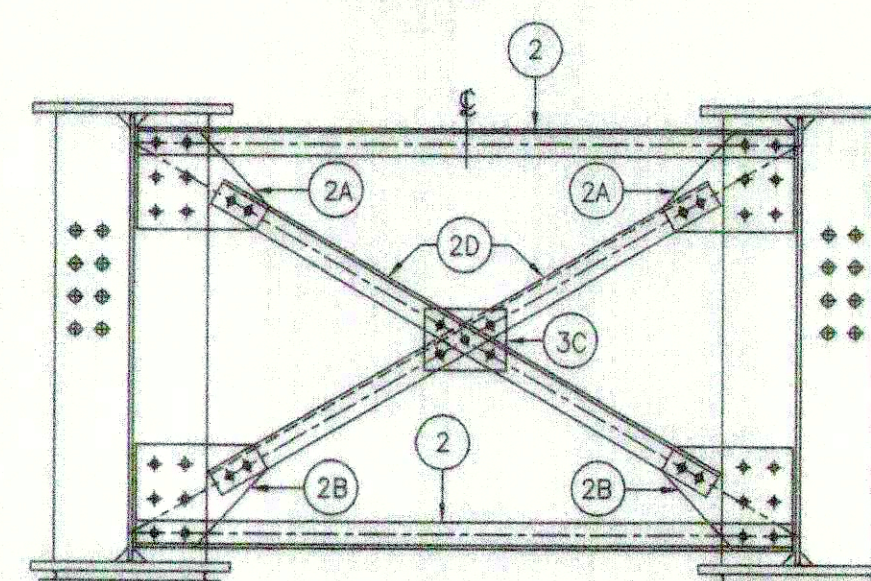
BOTTOM SECTIONAL PLAN



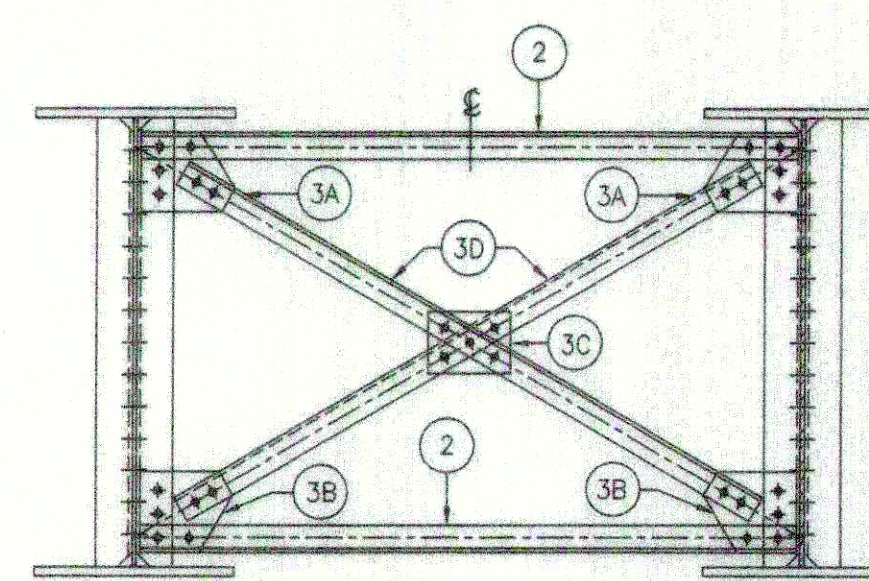
BED PLATE



BEARING PLATE



END X-FRAME



INT. X-FRAME

4. FOR GENERAL ARRANGEMENT REFER DRAWING No. **BA RDSO/B-16014**  
 3. ERECTION MARKS ARE TO BE PAINTED IN WHITE LETTERS 100mm HIGH (OR AS LARGE AS THE MEMBER WILL PERMIT) ON EACH MEMBER BEFORE DESPATCH FROM THE WORKS AS THUS  
 2. ANCHOR BOLTS SHOWN THUS  
 1. FIELD RIVETS SHOWN THUS

NOTE

SPECIFICATION

NOT TO SCALE

SCALE

ALT. DESCRIPTION

DATE

DESPATCH LIST

ERECTION MARK	DESPATCH LIST	SIZE IN mm			No. REQD.
		L	B	D	
1	GIRDER COMPLETE	13300	550	1342	2
2	X-FRAME (TOP & BOTTOM) HORZ. L. 75x75x10	1820	-	-	8
2D	X-FRAME (END) DIAG. L. 75x75x10	1596	-	-	4
2A	X-FRAME GUSSET (END)	366	280	10 TH.	4
2B	X-FRAME GUSSET (END)	363	284	10 TH.	4
3D	X-FRAME (INT.) DIAG. L. 75x75x10	1840	-	-	4
3A	X-FRAME GUSSET (INT.)	260	218	10 TH.	4
3B	X-FRAME GUSSET (INT.)	258	223	10 TH.	4
3C	ALL CENTRE GUSSET 10TH.	228	170	10 TH.	4
4	TOP LATERAL BRACING L 75x75x10	1853	-	-	9
4A	END GUSSET 10TH.	365	185	10 TH.	2
4B	INT. GUSSET 10TH.	365	325	10 TH.	6
4C	INT. GUSSET 10TH.	415	365	10 TH.	2
5	BED PLATES #	750	310	75	2
5A	BED PLATES #	750	310	75	2
1ST	STIFFENER PLATE	500	180	25	4
1BF	BEARING PLATE	450	95	32	4
	ANCHOR BOLTS	380	28 DIA.	16	B-005
	HOOK BOLTS #				B-003/M
	ELASTOMERIC BEARING ASS. AS PER DRG. NO. RDSO/B-16014/4				
	# IF FORMING PART OF CONTRACT				
	# OMIT IF ELASTOMERIC BEARINGS TO BE PROVIDED.				

RELATED DRAWINGS

DESCRIPTION	REFERENCE
GENERAL ARRANGEMENT	BA RDSO/B-16014
DETAILS OF X-FRAME, BEARING & PART LIST	BA RDSO/B-16014/1
WELDING SEQUENCE	BA RDSO/B-16014/3
ELASTOMERIC BEARING ASSEMBLY	RDSO/B-16014/4

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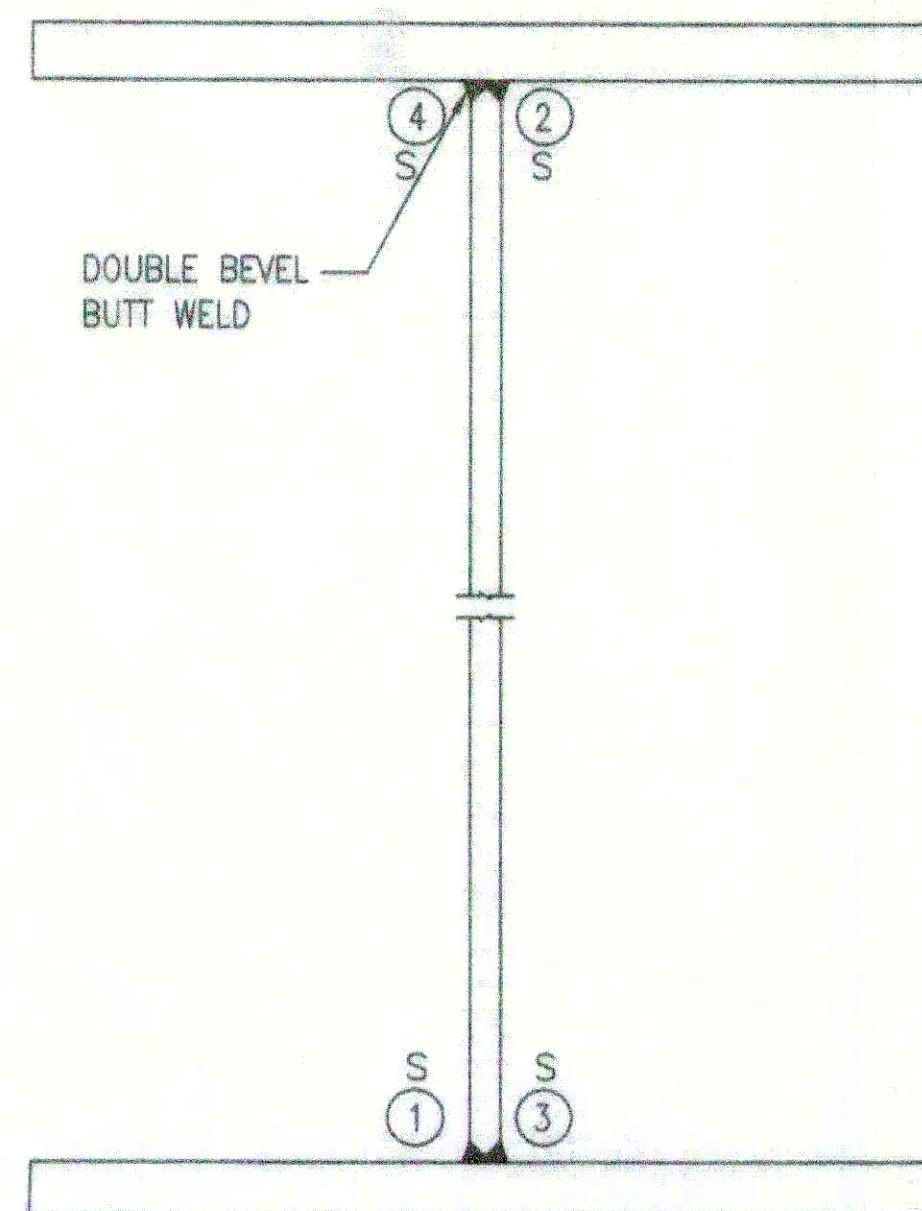
R. D. S. O.

"25t LOADING-2008"  
 PLATE GIRDER-WELDED TYPE  
 12.2m SPAN (10x10<sup>6</sup> CYCLES)  
 (BRACINGS & INT. STIFFENERS RIVETTED)  
 ASSEMBLY DRAWING & DESPATCH LIST

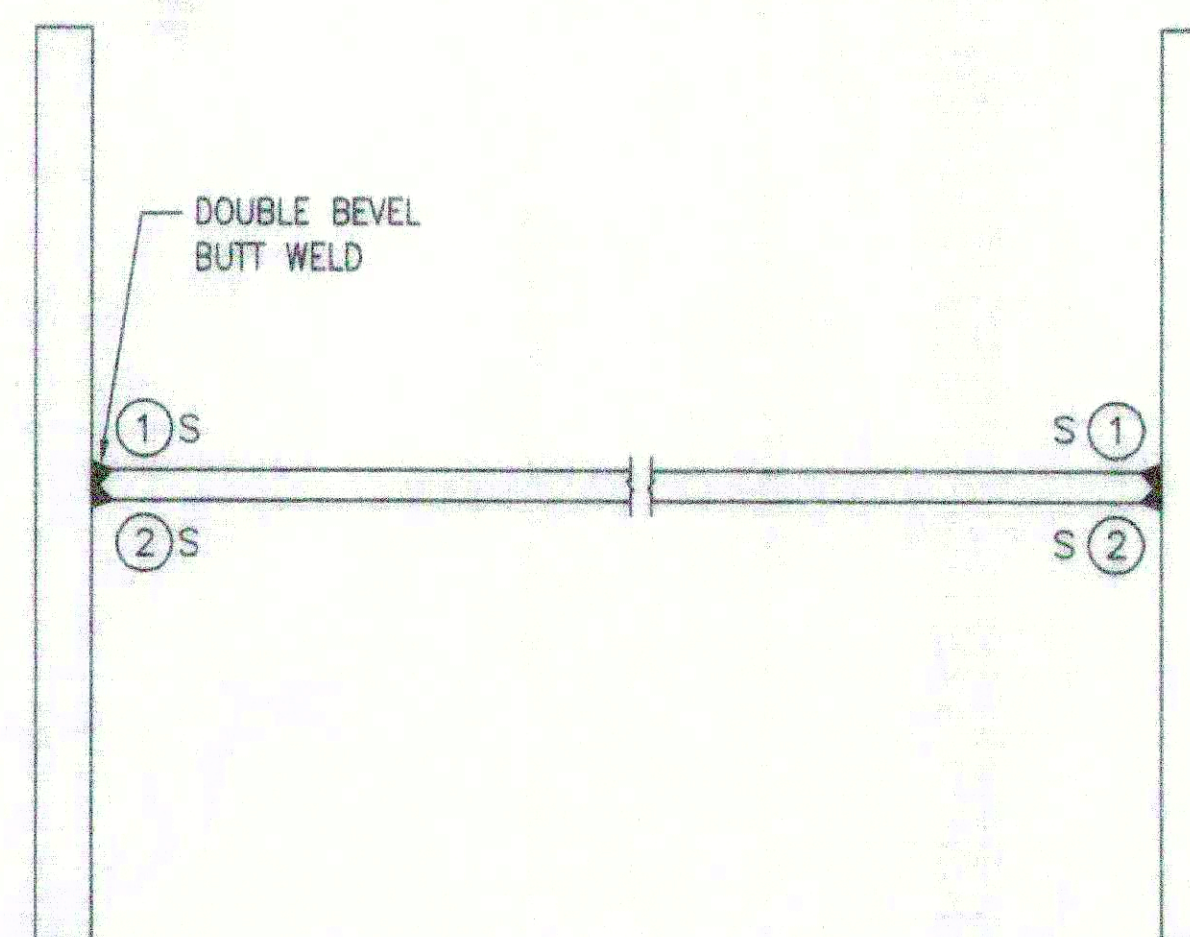
APPROVED ITEM NO. 999/78<sup>th</sup>/2009

BA RDSO/B-16014/2

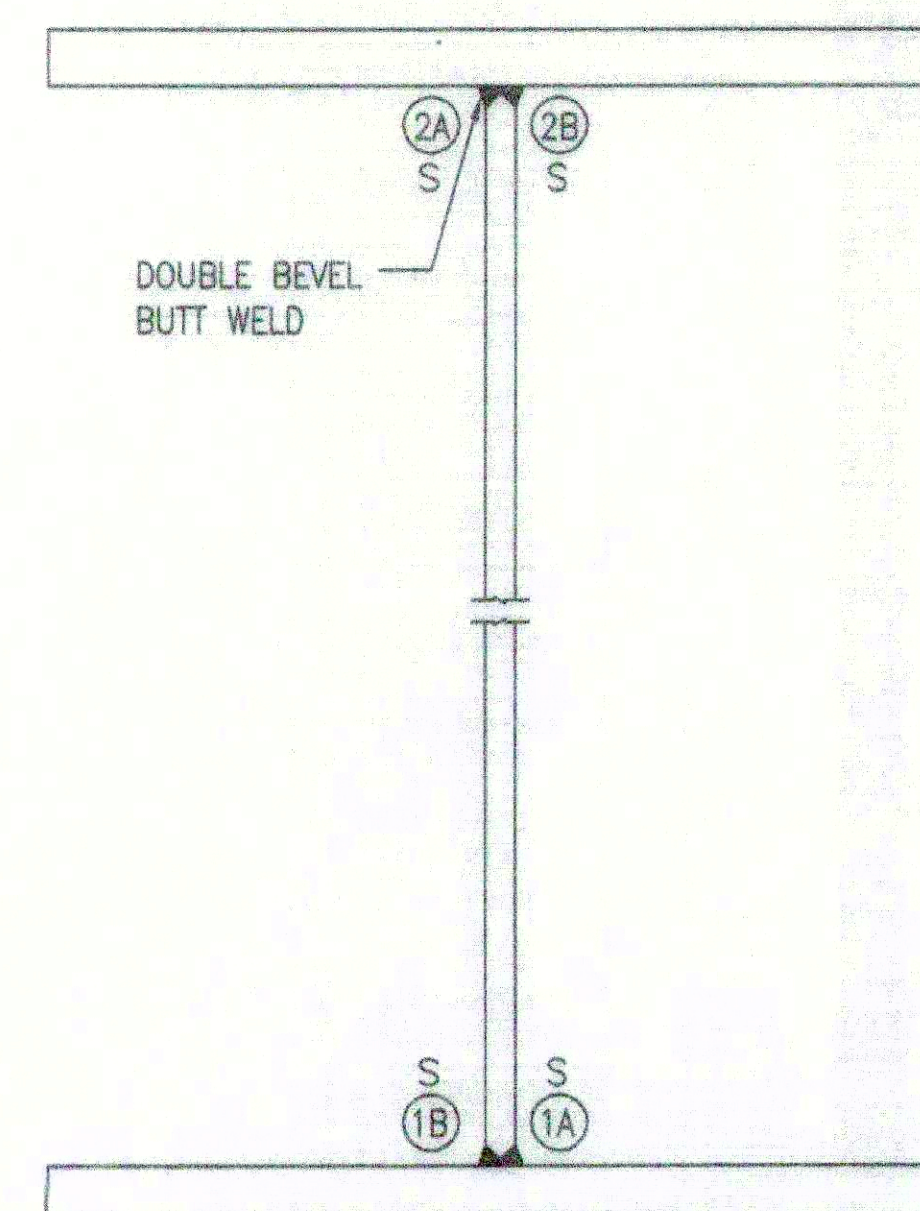




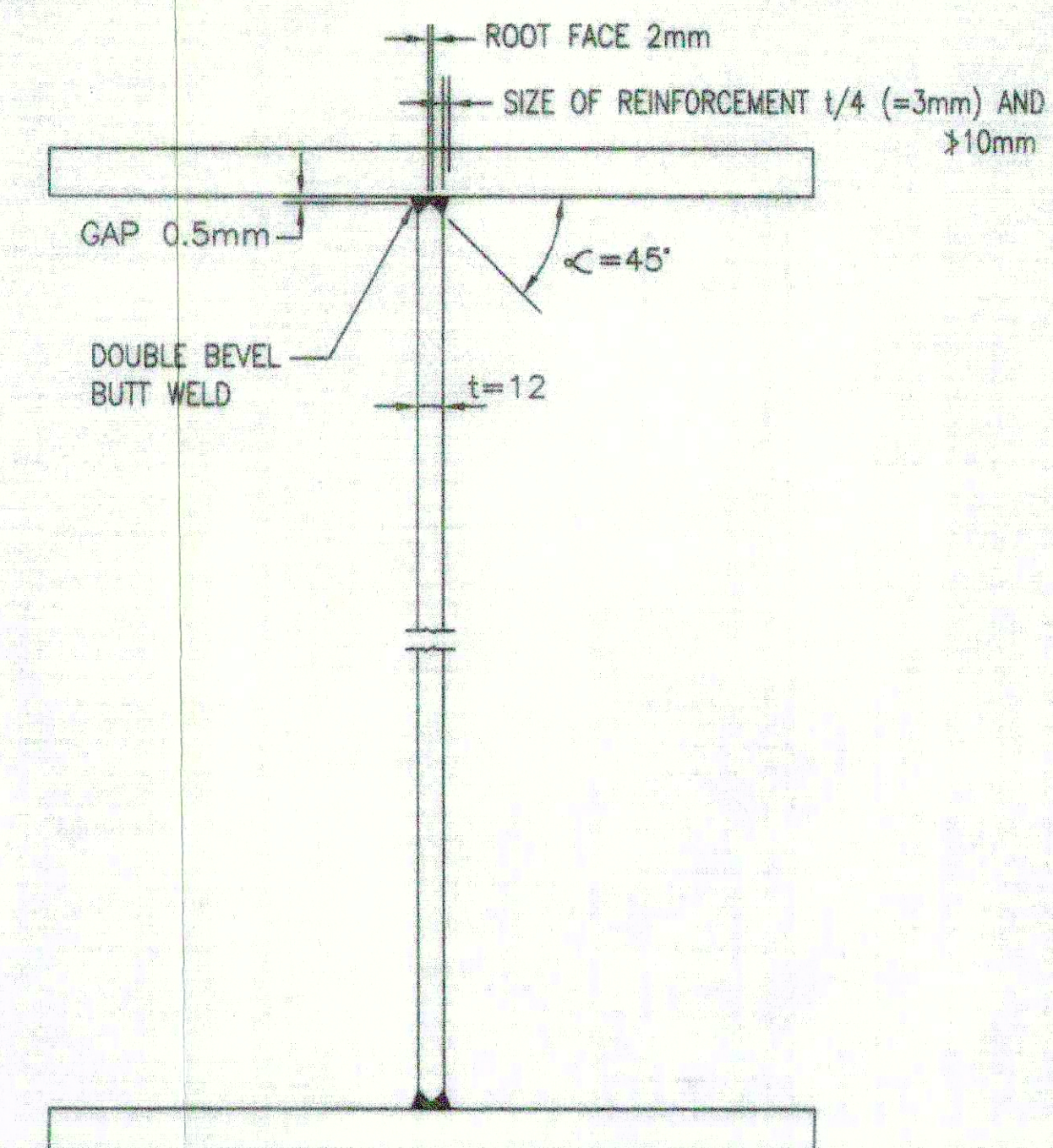
APPLICATION OF SINGLE HEAD MACHINE



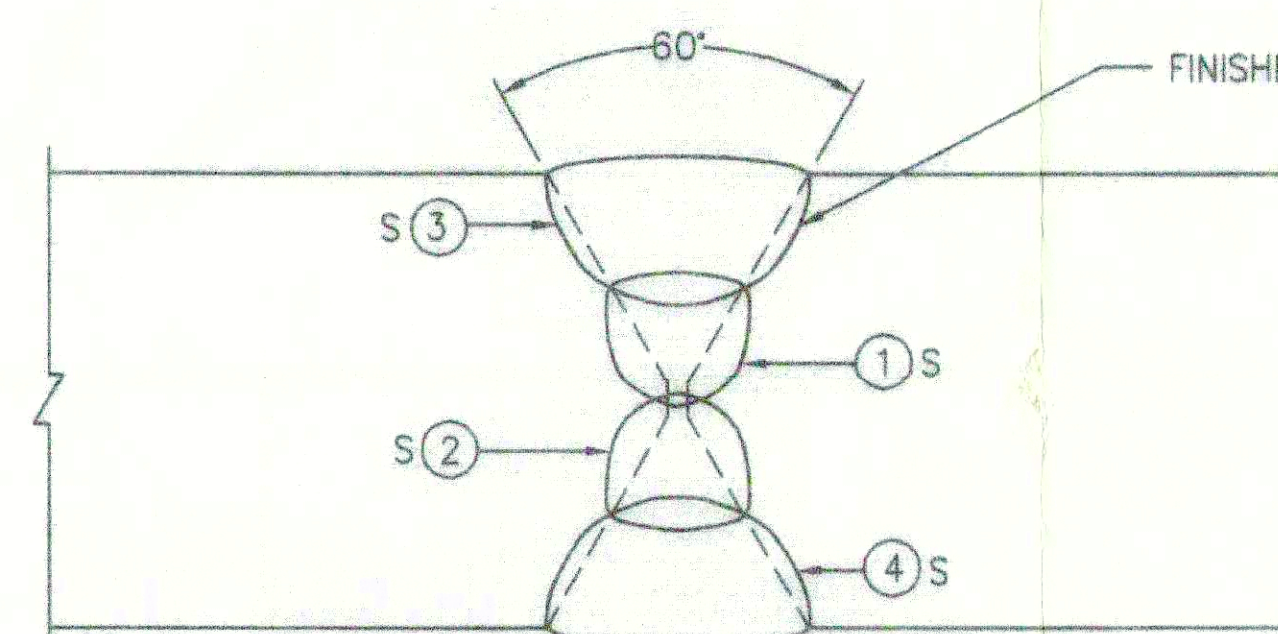
APPLICATION OF DOUBLE HEAD MACHINE ON GIRDERS:  
LAID FLAT.



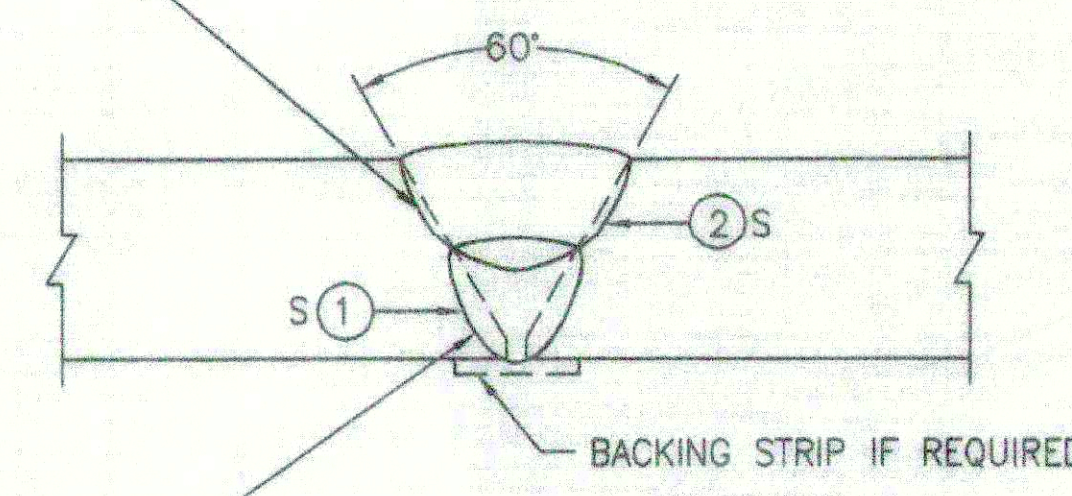
APPLICATION OF DOUBLE HEAD MACHINE  
ON GIRDERS ON VERTICAL POSITION.



CONNECTION BETWEEN WEB AND FLANGE PLATE



FLANGE SPLICE  
(DOUBLE 'V')



WEB SPLICE  
(SINGLE 'V')

BUTT WELDING

1. SEQUENCE AND POSITION OF WELDING.

ALL THE WELDING IS TO BE DONE ENTIRELY IN DOWN HAND POSITION. (S) INDICATES SUBMERGED ARC WELDING. Nos. 1,2,3 ETC. NEXT TO ABOVE NOTATION INDICATE SEQUENCE BY WHICH THE WELDING IS TO BE PERFORMED.

2. APPLICATION OF SINGLE HEAD MACHINE.

TO WELD GIRDERS WITH SINGLE HEAD MACHINE, FLANGES AND WEBS ARE TO BE SET IN FIXTURE AND TACKED. ON COMPLETION, THE ASSEMBLY IS TAKEN OUT AND PLACED ON THE WELDING STALLAGE FOR FINAL WELDING.

3. APPLICATION OF DOUBLE HEAD MACHINE ON GIRDERS LAID FLAT.

TWO WELDS ARE DEPOSITED ON ONE FACE OF WEB AT A TIME. THIS ARRANGEMENT DOES NOT REQUIRE REMOVAL OF THE ASSEMBLY FROM THE FIXTURE AFTER TACKING. THE FLANGE PLATES ARE SET AGAINST THE WEB IN THE FIXTURE AND TACKED MAIN WELDS, EACH JOINING FLANGE WITH THE WEB, ARE TO BE LAID WHILE ASSEMBLY IS STILL IN THE FIXTURE. AFTER COMPLETION OF FIRST FACE WELDING OF WEB, THE ASSEMBLY IS TO BE TURNED OVER AND WELDING OF THE SECOND FACE DONE.

4. APPLICATION OF DOUBLE HEAD MACHINE ON GIRDERS IN VERTICAL POSITION.

IN THIS CASE TWO WELDS ARE LAID JOINING EACH FLANGE WITH THE WEB AT A TIME. THIS WILL REQUIRE TACKING OF THE FLANGES WITH THE WEB, WHICH ARE PREVIOUSLY SET IN FIXTURE SPECIALLY MADE FOR THE PURPOSE. THE ASSEMBLY IS TO BE REMOVED FROM THE FIXTURE AFTER TACKING IS COMPLETED AND POSITIONED IN A MANIPULATOR, THE TWO WELDING HEADS ARE OPERATED IN SUCH A WAY ONE HEAD WILL BE AWAY BY 600 mm, BOTH THE HEADS TRAVELLING AT THE SAME SPEED.

SCHEME OF SYMBOLS FOR WELDING : IS: 813  
SUBMERGED ARC WELDING : IS: 4353  
METAL ARC WELDING : IS: 9595  
IRS WELDED BRIDGE CODE REVISED 2001  
FABRICATION SPECIFICATION No. B1-2001, REVISED-2001

NOT TO SCALE

1. RELATED DRAWINGS  
LIST ALTERED

ALT.  
1

RELATED DRAWINGS

DESCRIPTION	REFERENCE
GENERAL ARRANGEMENT	BA RDSO/B-16014
DETAILS OF X-FRAME, BEARING & PART LIST	BA RDSO/B-16014/1
ASSEMBLY DRAWING & DESPATCH LIST	BA RDSO/B-16014/2
ELASTOMERIC BEARING ASSEMBLY	RDSO/B-16014/4

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R. D. S. O.

"25t LOADING-2008"  
PLATE GIRDER-WELDED TYPE  
12.2m SPAN (10x10<sup>6</sup> CYCLES)  
(BRACINGS & INT. STIFFENERS RIVETTED)  
WELDING SEQUENCE

APPROVED ITEM NO. 999/78<sup>th</sup>/2009

BA RDSO/B-16014/3

NOTE

SPECIFICATION

SCALE

ALT. DESCRIPTION

DATE

CALCULATION REGISTER No. DD/2008/1

PAGES DONE BY-MATA PRASAD (S.S.E.)

1 TO CHECKED BY-M.M.SRIVASTAVA (S.S.R.E.)

DRAWN BY-MOHD. AZHAR (S.E.)

CHECKED BY-MATA PRASAD (S.S.E.)

M.M.SRIVASTAVA (S.S.R.E.)

SCRUTINISED & CHECKED BY-

ADE/SB-II

26/8/08

SCRUTINISED & CHECKED BY-

DBS/SB-II

26/8/08

APPROVED BY-

EDBS

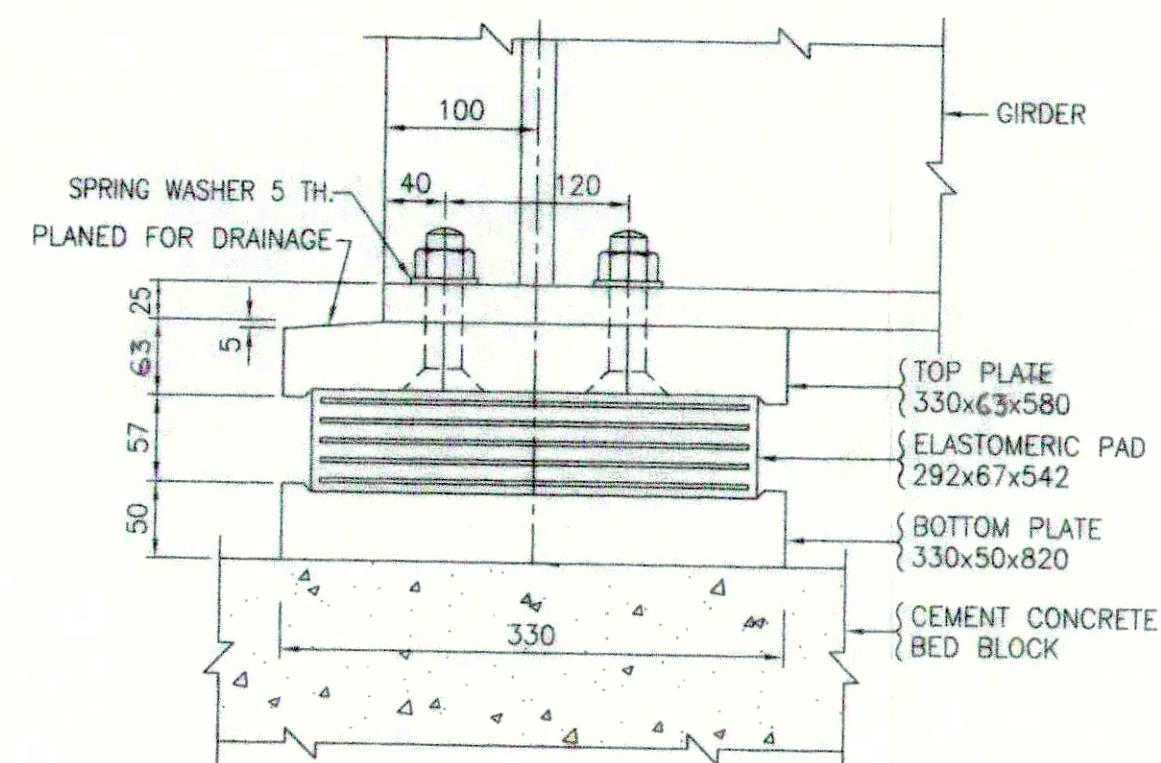
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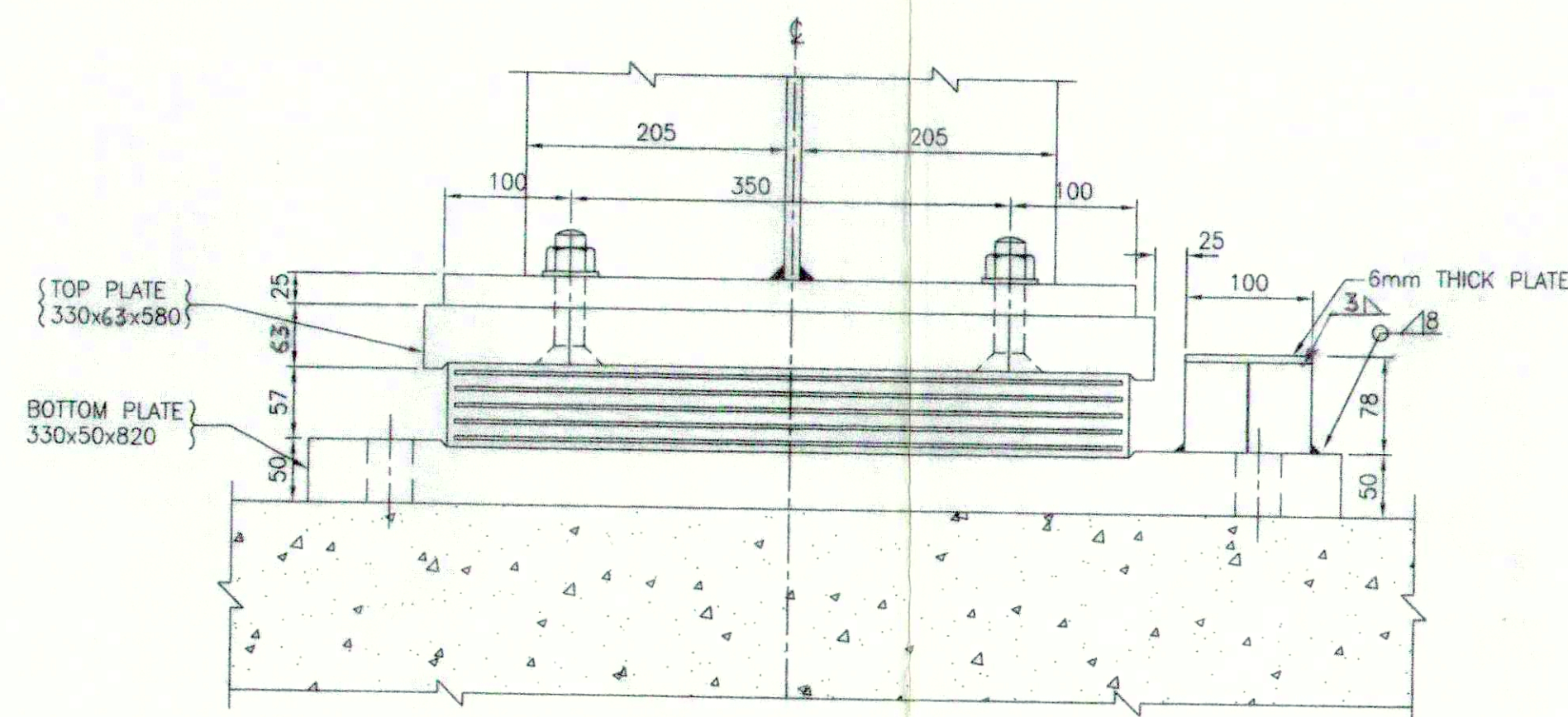
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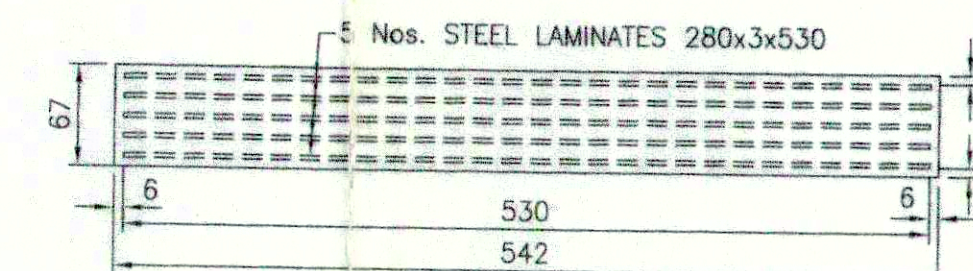




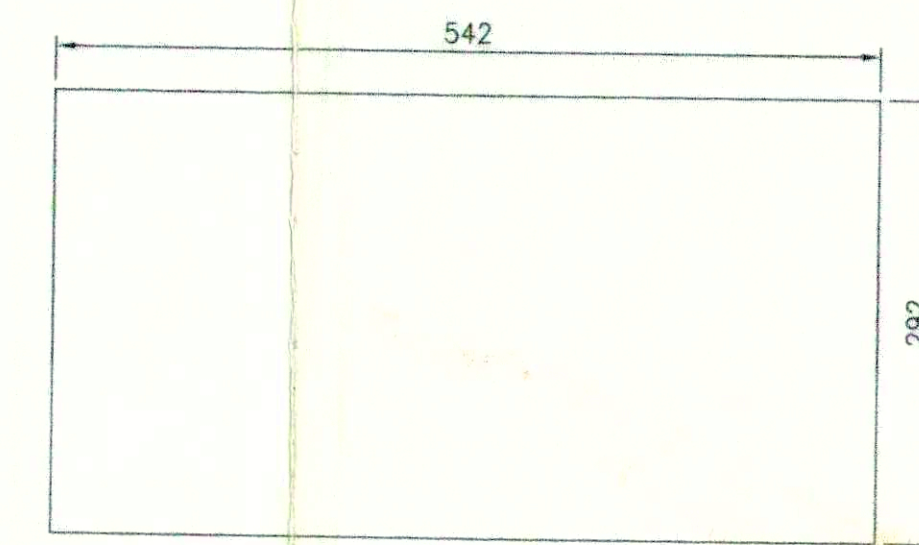
ASSEMBLY DETAILS AT YY



ASSEMBLY DETAILS AT XX

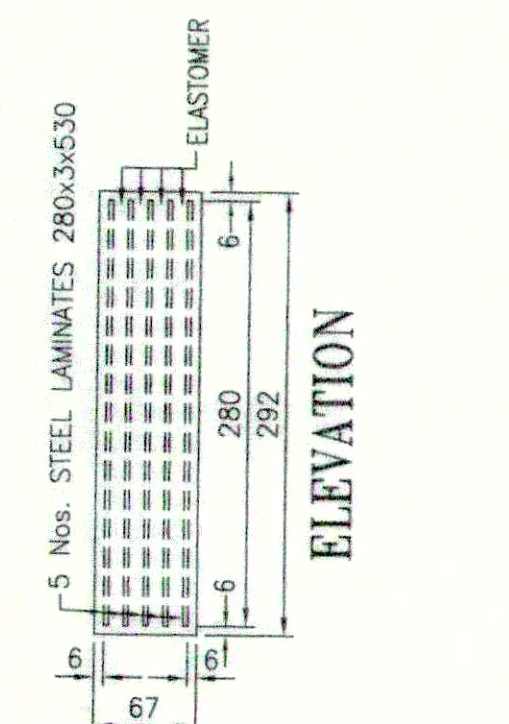


SIDE ELEVATION

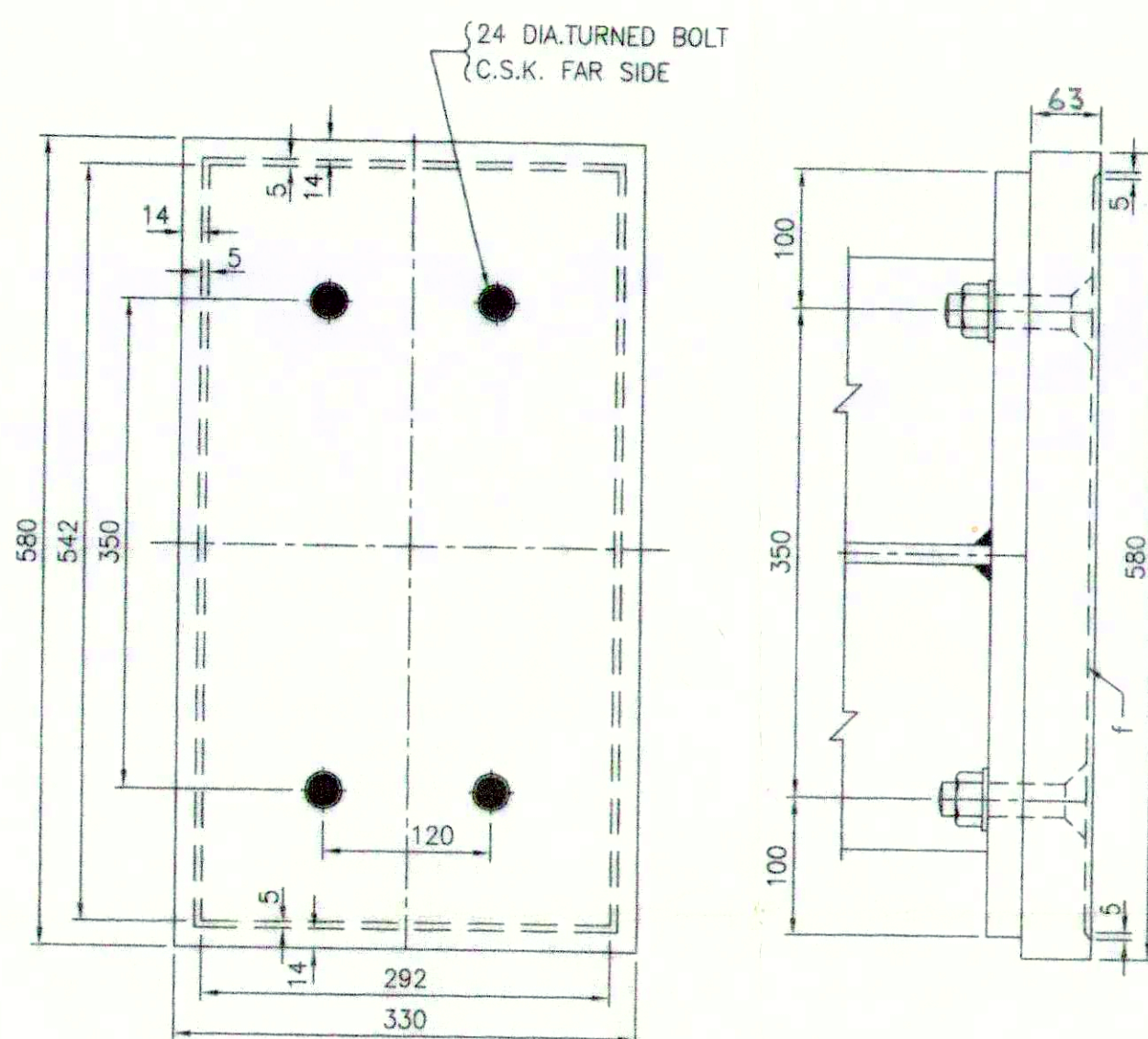


PLAN

DETAILS OF ELASTOMERIC PAD



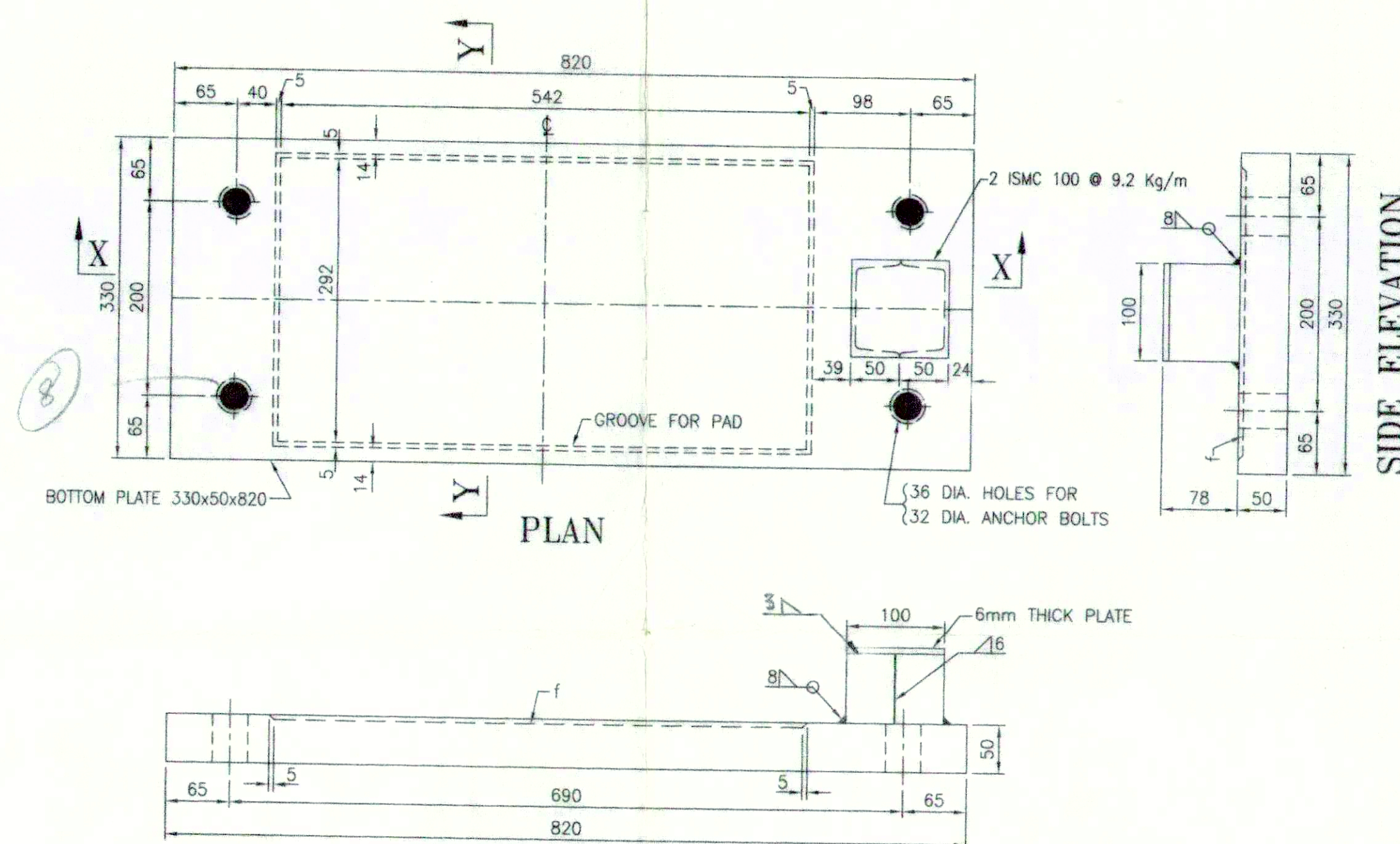
ELEVATION



PLAN

SIDE ELEVATION

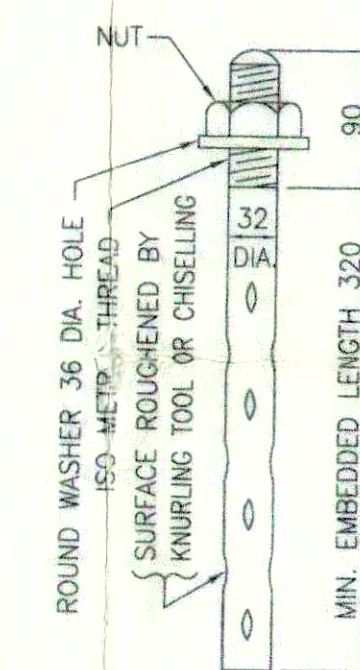
DETAILS OF TOP PLATE



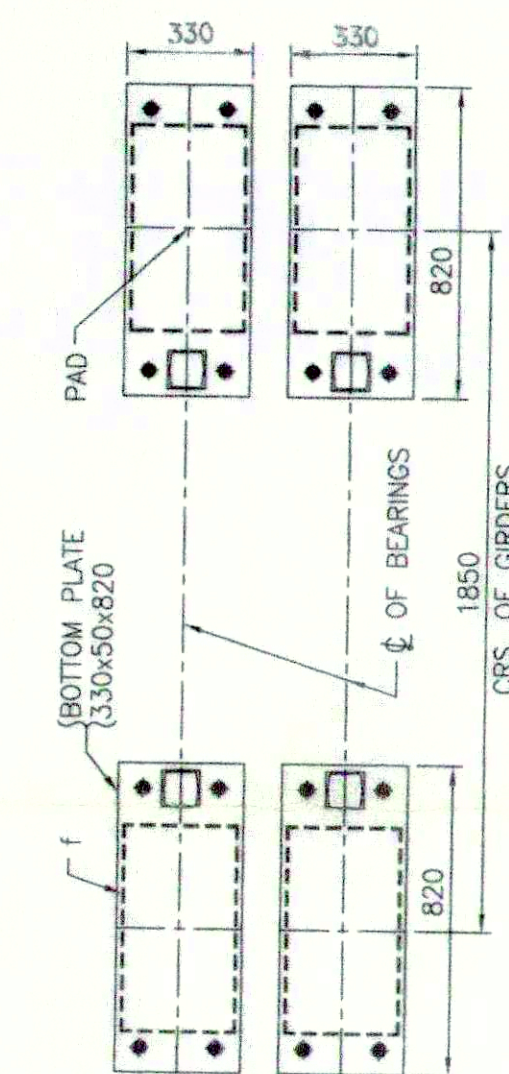
PLAN

ELEVATION

DETAILS OF BOTTOM PLATE



ANCHOR BOLT  
(SCHEMATIC)



PLAN OF BEARINGS AT PIER  
(NOT TO SCALE)

## BEARING ASSEMBLY

16. FOR NEW WORKS, BED BLOCK SHALL BE MIN. M25. FOR EXISTING WORKS, BED BLOCK CONCRETE SHOULD NOT BE LESS THAN M20.
15. THE HOLES FOR TOP PLATE SHALL BE DRILLED IN WORKSHOP IF ELASTOMERIC BEARINGS ARE TO BE PROVIDED.
14. MACHINED SURFACES SHOWN THUS ----f
13. ALL STRUCTURAL STEEL SHALL CONFORM TO MILD STEEL IS: 2062 Gr.B.
12. IT IS PREFERABLE THAT BEARING SHALL BE INSTALLED AT NEARLY MEAN TEMPERATURE.
11. BEARINGS MUST BE PLACED BETWEEN TRUE HORIZONTAL SURFACE (MAX. TOLERANCE 0.2% PERPENDICULAR TO LOAD) AND AT TRUE PLAN POSITION OF THEIR CONTROL LINES MARKED ON RECEIVING SURFACES (MAX. TOLERANCE+ 3mm).
10. DRAINAGE SHALL BE ENSURED BY PROVIDING SLOPE AWAY FROM BEARING IN ALL DIRECTIONS. (BEARING SHALL REST ON FLAT HORIZONTAL SURFACE).
9. WHEN REPLACING BEARINGS IN EXISTING GIRDERS, ALL BEARINGS IN ONE LINE OF SUPPORT SHALL BE REPLACED TOGETHER.
8. COUNTER SUNK BOLTS SHOULD NOT PROJECT BEYOND MACHINED SURFACES.
7. GROOVED BOTTOM SURFACE OF THE TOP PLATE AND TOP SURFACE OF THE BOTTOM PLATE SHALL BE VULCANISED TO ELASTOMERIC PAD. PASTING/GLUING OF RUBBER TO STEEL IS NOT ALLOWED.
6. THE ELASTOMERIC PADS SHALL BE OF IRHD-70 AND SHALL CONFORM TO THE SPECIFICATIONS LAID DOWN IN UIC 772-R.
5. MAX. DESIGN PRESSURE BELOW THE BEARING ASSEMBLY IS 0.45 Kg/mm<sup>2</sup>.
4. THE STATIC SHEAR MODULUS FOR THE ELASTOMERIC PADS HAS BEEN ASSUMED AS 0.1 Kg/mm<sup>2</sup>.
3. ALLOWABLE COMPRESSIVE STRESS IN ELASTOMERIC BEARING INCLUDING CDA IS TAKEN AS 1.10 Kg/mm<sup>2</sup>.
2. THE DESIGN IS BASED ON UIC CODE-772-2R, CODE FOR THE USE OF RUBBER BEARING FOR RAIL BRIDGES AND IRC-83 PART-II.
1. ALL DIMENSIONS ARE IN MILLIMETRES.

## NOTE

## LOADS FOR DESIGN OF SUBSTRUCTURE

LOAD TYPE	LOAD (t) IN DIFFERENT CASES		
	DL ONLY	DL + LL	DL + LL + EQ
VERTICAL LOAD	4.42	78.91	94.98
LONGITUDINAL LOAD	0	15.75	8.67
LATERAL LOAD	0	2.99	12.278

STEEL FOR EVERY MEMBER : IS: 2062 Gr.B  
EXCEPT STUD : FULLY KILLED & FULLY NORMALISED

STUD STEEL : IS: 3935

UIC BEARING DESIGN CODE : 772

BS CODE : BS-5400

SHEAR CONNECTOR DESIGN CODE : IS: 3935

SCHEME OF SYMBOLS FOR WELDING : IS: 813

METAL ARC WELDING : IS: 9595

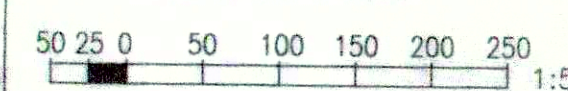
SUBMERGED ARC WELDING : IS: 4353

ELECTRODES : IRS M-29

WIRE FLUX COMBINATION FOR SAW : IRS M-39

FABRICATION SPECIFICATION No. IRS/B1-2001, REVISED-2008

## MILLIMETRES



## SPECIFICATION

## SCALE

## ALT.

## DESCRIPTION

## DATE

TOTAL WEIGHT OF BEARINGS = 806.17 Kg.

## RELATED DRAWINGS

S.No.	DESCRIPTION	REFERENCE
1.	GENERAL ARRANGEMENT	BA-16014
2.	DETAILS OF X-FRAME, BEARING & PART LIST	BA-16014/1
3.	ASSEMBLY DRAWING & DESPATCH LIST	BA-16014/2
4.	WELDING SEQUENCE	BA-16014/3

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R. D. S. O.

"25t LOADING-2008"  
ELASTOMERIC BEARING DETAILS  
FOR WELDED PLATE GIRDERS  
12.2m SPAN

PROVISIONAL

RDSO/B-16014/4

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1 TO	CHECKED BY-P.K. CHAWLA (S.S.R.E.)	P.K. CHAWLA (S.S.R.E.)		